Physical Science DSHS
Name: _____ Per____

Systems of measurement & conversions:

Make the following metric conversions:

1. 6 kg = _____ cg
2. 8 mL = _____ cm^3
3. 9.3 m = _____ cm
4. 200 cm = _____ mm
5. 45 mg = _____ g
6. 260 mL = _____ L

Write the following numbers in scientific notation:

7. 2003.09 _____
8. 63.01 _____
9. 0.00605 _____
10. 0.00004 _____

Write the following numbers in standard or ordinary notation

11. 3.01×10^5 _____
12. 4.66×10^{10} _____
13. 6.70×10^{-3} _____
14. 9.51×10^{-4} _____

Solve the following:

15. If apples cost $3.99 per dozen, how much would seven apples cost?

16. How many seconds are in a 1.5 hour soccer match?

17. If a person weighs 125 lbs, 8 oz., how many kg does s/he weigh? [1 lb = 16 oz, 1 kg = 2.2 lbs]

18. A research assistant is heating a chemical reaction for 8.95 hours. How many minutes will it take to heat the reaction?

19. How many miles will a person run during a 10 kilometer race?
[0.621 mi = 1.00 km]

20. A family pool holds 10,000 gallons of water. How many cubic meters is this?
[264.2 gal = 1 cubic meter]

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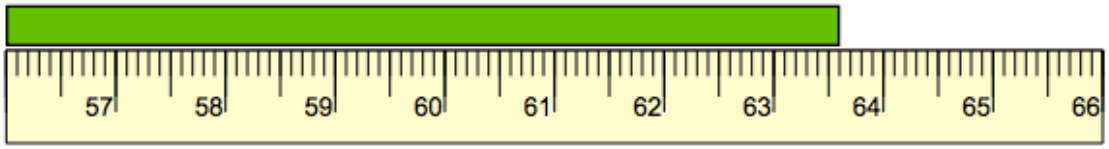
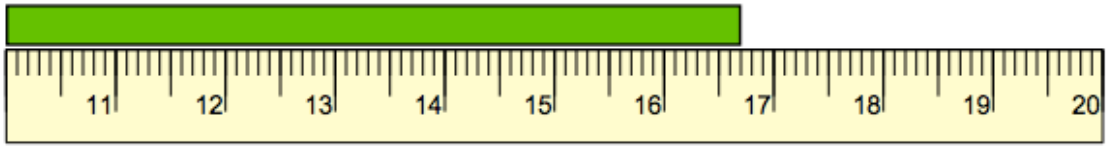
Taking measurements:

How many centimeters?

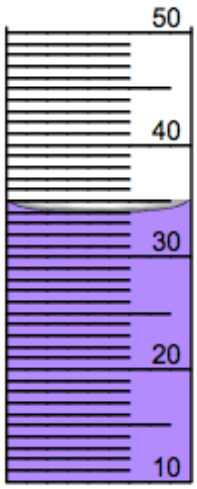


1. _____

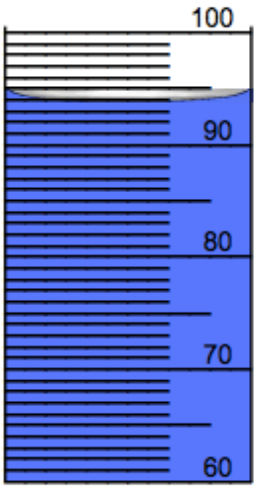


2. _____

What is the reading in milliliters for each graduated cylinder?

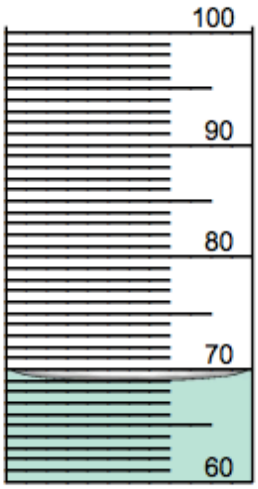


3. _____



4. _____

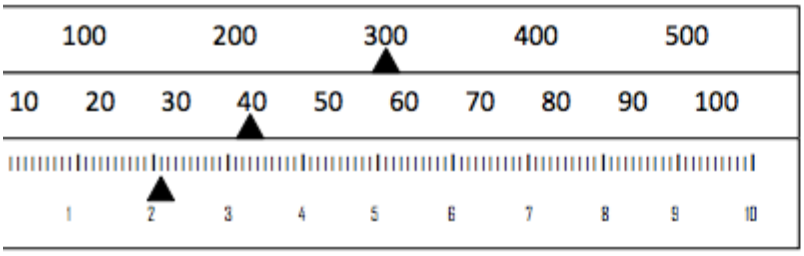
5. _____



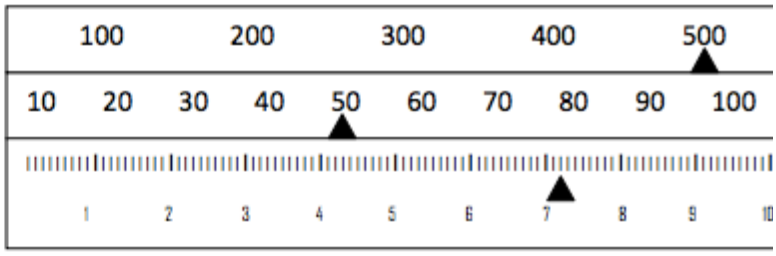
6. _____

Read the following triple beam scales and determine the masses. Triple Beam Balances measure in grams.

7. _____g



8. _____g



9. Explain the difference between accuracy and precision:

_____

_____